

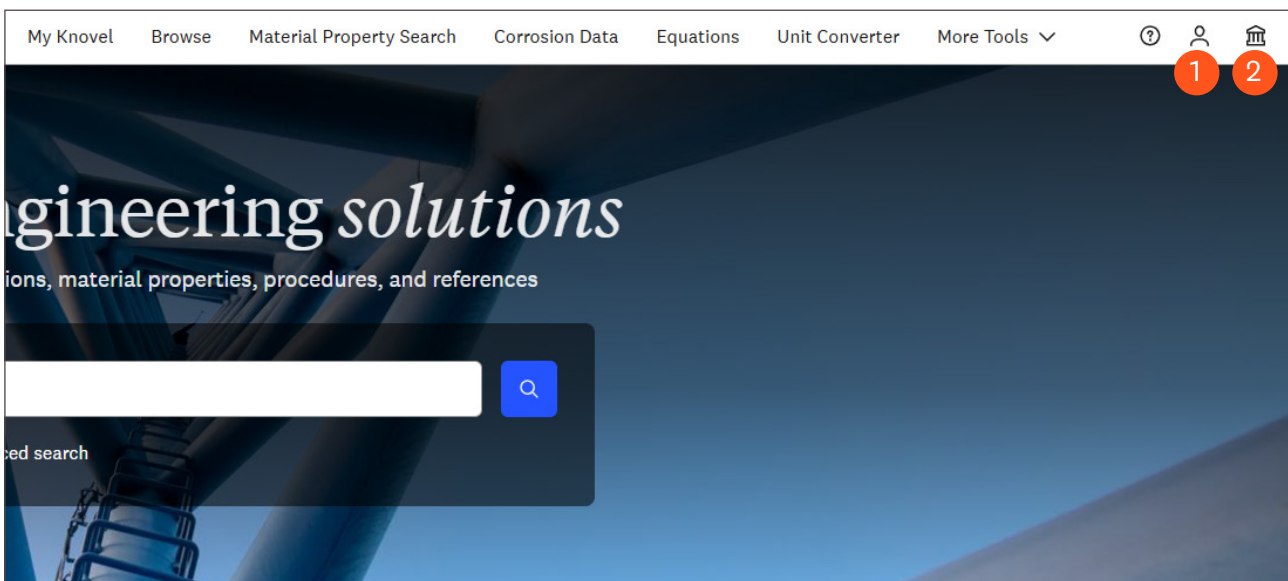
Quick start guide



Knovel is an engineering decision-support solution enabling engineers to solve problems faster. With powerful search and interactive analytical tools, engineers can confidently find answers to technical questions through best practice insights, validated equations and materials and substances data from more than 170 providers. For more than 25 years, Knovel has helped thousands of engineers and researchers from leading companies and institutions around the world enhance research and productivity, achieve operational excellence, reduce costs and time to market and build expertise.

Getting started with Knovel – registration

Visit app.knovel.com and click Create Account to register with Knovel.



1. Create Account: Create and update your profile, change password, and logout.

2. Sign In: Sign in to your existing account.

Benefits of registering



Save, organize and share content with colleagues



Save search history



Stay up to date with an email digest of news from more than 120 sources

How is Knovel used?

An engineer used Knovel to compare properties of stainless steel alloys to increase the life cycle of a heavy milling machine.

Result: 18% cost reduction and 15% life cycle Increase.

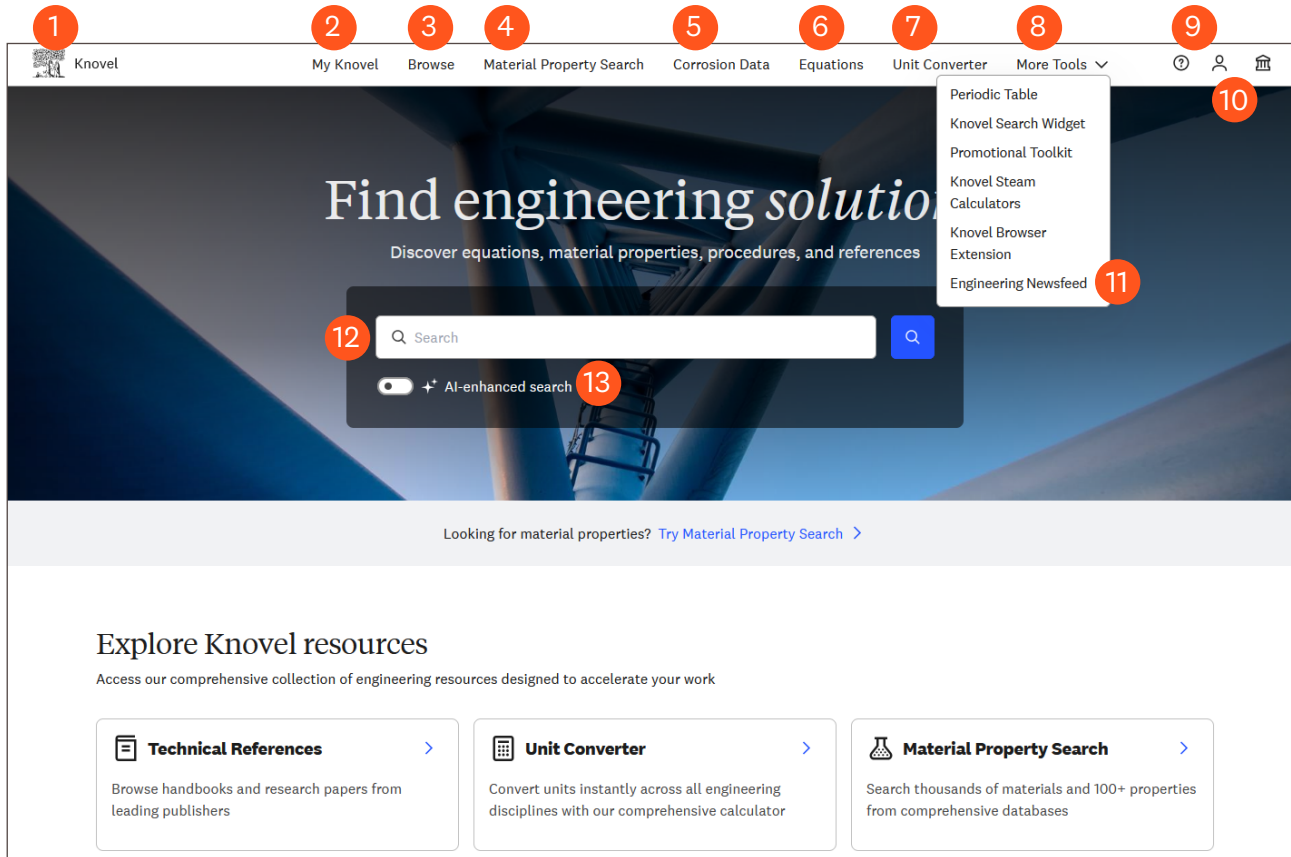
An engineer used Knovel's graph digitizer to understand the corrosive properties of metals with respect to pH and water solution speed in a refinery boiler.

Result: Reduced EHS risk and provided cost savings on the project.

A research team at an academic institution used Knovel to discover background knowledge on wearable technology & fabrics plus reliable data on density polymer properties to integrate into 4 research papers.

Result: Provided an increase in research funding.

Knovel Homepage

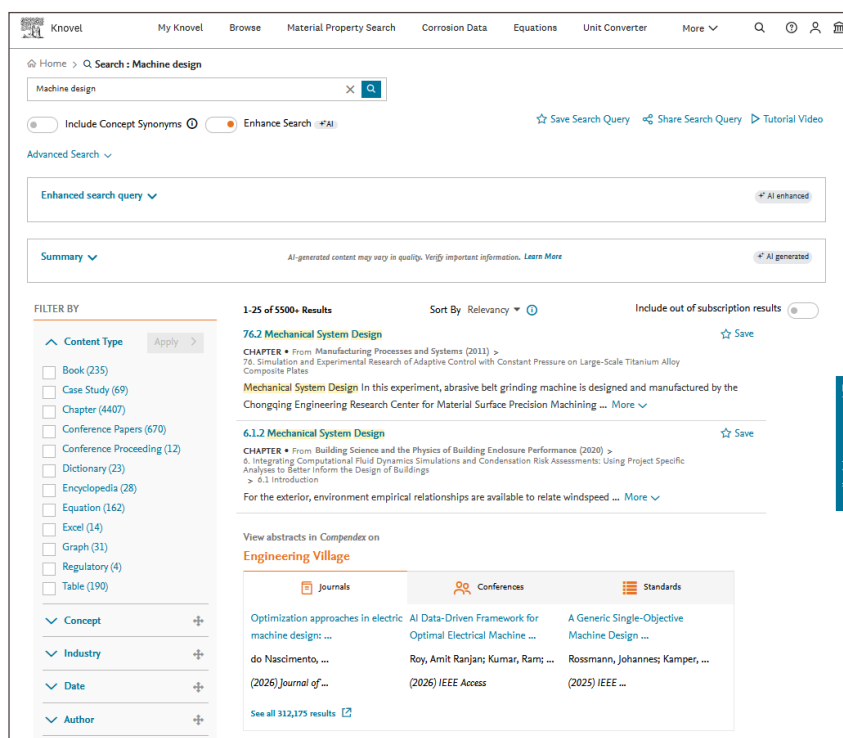


The Knovel homepage is your starting point to discovering Knovel’s technical reference content, data and interactive tools to solve data-driven problems and gain foundational knowledge.

- 1. Home:** Returns you to this page
- 2. My Knovel:** Save, organize, and share your favorite content, queries and data
- 3. Browse:** Browse all Knovel content by subject areas
- 4. Material Property Search:** Find material and property data from interactive graphs and tables
- 5. Corrosion Data (separate subscription):** Corrosion and degradation data for Metals and Plastics, including Isocorrosion curves and case studies
- 6. Equations:** Find and use engineering equations and worked examples
- 7. Unit Converter:** Convert units of measure
- 8. More Tools:** Includes Steam Calculators, Periodic Table, Engineering Newsfeed and more
- 9. Support Center:** Find answers to questions on using Knovel
- 10. Create Account/Sign In:** Create and update your profile, change password, and, logout.
- 11. Engineering Newsfeed:** Stay up to date with latest industry news
- 12. Search:** Search using keywords, title or author
- 13. AI-enhanced search (Available for Knovel Core/All Access customers):** AI search assistant that builds expanded Boolean queries and provides summaries of search results

Searching in Knovel

Knovel offers two powerful approaches to discover information: traditional keyword search and AI-assisted search (*Available for Knovel Core/All Access customers*). Both methods are fully supported, with AI-assisted search being opt-in.



Choosing Your Search Method

Use AI-enhanced Search when:

- You have complex technical questions
- You're exploring unfamiliar topics
- You want to search in natural language or a language other than English
- You need query optimization assistance
- You want a Summary of your search results

Use Traditional Search when:

- You know exact terms or phrases
- You need specific content types
- You prefer manual query control

Search Examples

• Use AI-enhanced Search for complex queries

• In traditional search:

- Use quotation marks for exact match (e.g., "tool steels")
- Boolean operators supported: AND, OR, NOT (use parentheses to control order). *Boolean searches will not be expanded by the AI search assistant*
- Search by author: author: xxxx
- Search by title: title: xxxx
- Search by CAS Registry No., Molecular Formula, or UNS number

Searching in Knovel

The screenshot shows the Knovel search interface. At the top, there is a navigation bar with 'Knovel', 'My Knovel', 'Browse', 'Material Property Search', 'Corrosion Data', 'Equations', 'Unit Converter', and 'More'. Below this is a search bar with 'Machine design' entered. To the right of the search bar are three callouts: 3 (Save Search Query), 4 (Share Search Query), and 5 (Tutorial Video). Below the search bar are two toggle buttons: 'Include Concept Synonyms' (callout 1) and 'Enhance Search' (callout 2). Below these are 'Advanced Search' (callout 6) and 'Enhanced search query' (callout 7) sections. Below the enhanced search query is a 'Summary' section (callout 8) with a note 'AI-generated content may vary in quality. Verify important information. Learn More'. To the left is a 'FILTER BY' sidebar with 'Content Type' (callout 9) and 'Concept', 'Industry', 'Date', and 'Author' filters. The main results area shows '1-25 of 5500+ Results' (callout 10) and 'Sort By Relevancy' (callout 10). The first result is '76.2 Mechanical System Design' (callout 11) with a 'Save' button (callout 12). The second result is '6.1.2 Mechanical System Design' (callout 11) with a 'Save' button (callout 12). Below the results is a 'View abstracts in Compendex on Engineering Village' section (callout 13) with a table of results.

- 1. Search:** Search using keywords, title or author
- 2. AI-enhanced search (Available for Knovel Core/All Access customers):** AI search assistant that builds expanded Boolean queries and provides summaries of search results
- 3. Save Search Query:** Save query to My Knovel (requires registration)
- 4. Share Search Query:** Generate URL to easily share the search
- 5. Tutorial video:** Guidance on Search
- 6. Advanced Search:** Use advanced search to search for specific titles, authors, or publishers
- 7. AI-assisted structured query:** Expanded Boolean query generated by AI
- 8. AI-generated summary:** Summary of search results with citation links and follow-up searches
- 9. Facets:** Filter results by content type, concepts, industry, date, or author
- 10. Sort:** Sorting by Relevancy, Knovel release date, or Copyright date
- 11. Search results:** Results of the user query. Includes links to sections, Title, snippets, and other editions as needed
- 12. Save search hit:** Save single items to My Knovel from Search
- 13. Engineering Village connector (requires subscription to EV):** Search result preview from Engineering Village for Journals, Conferences, and Standards

Property Search in Knovel

The screenshot shows the Knovel Material Property Search interface. At the top, there are navigation links: Home, Material Property Search, Corrosion Data, Equations, Unit Converter, and More Tools. The main heading is "Material Property Search". Below it, a brief description states: "Knovel's material property search engine finds numeric data hidden in handbooks, manuals, and databases. There are thousands of materials and substances (metals, polymers, ceramics, chemicals, etc.) and more than 100 properties (physical, thermodynamic, electrical, corrosion, etc.) to search." Below this are links for "Share Material Property Search", "Save to My Knovel", and "Tutorial Video".

The search interface is divided into several sections:

- 1. Material or Substance Name:** A search bar containing "benzene".
- 2. Share URL:** A link to share the search query.
- 3. Save to My Knovel:** A star icon to save the search query.
- 4. Filter by Property Name:** A dropdown menu showing "expansion".
- 5. Drag & Drop:** A section for "temperature" with a dropdown menu set to ">=".
- 6. Set conditions and constraints:** A numeric input field containing "500" and a unit dropdown set to "°C".
- 7. Results:** A button labeled "4 Table/Graph Results" with a right-pointing arrow.

On the right side, there is a list of properties under the heading "Collapse all":

- thermal and thermodynamic properties
 - heat capacity
 - specific heat ratio [S]
 - thermal expansion
 - linear thermal expansion coefficient [S]
 - thermal expansion coefficient [S]
 - transport properties
 - Joule-Thomson effect [S]

A vertical "Feedback / Improve Knovel" button is located on the far right.

Instantly access thousands of materials and millions of properties while easily narrowing down your search to relevant data.

- 1. Material or Substance Name:** Enter name or select from auto-suggest
- 2. Share URL:** Share this search query via email or short URL
- 3. Save to My Knovel:** Save this search query
- 4. Filter by Property Name:** Type or browse properties
- 5. Drag & Drop** properties into query builder
- 6. Set conditions and constraints** on the properties
- 7. Results** dynamically update as query is built

Material or Substance

- Name: titanium, carbon, sulfuric acid
- CAS Registry No: 71-43-2, 7440-38-3
- Molecular Formula: c6h6, h2s04
- UNS number: R56400, H40270
- STM Spec.: SA-182, SA-387

Properties

- Combine up to three properties using AND, OR, NOT
- Numeric operators: exists, =, <=, >=, between
- Selectable units (C, F, R, K)

My Knovel

The screenshot shows the 'My Knovel' dashboard. At the top, there are navigation tabs: 'My Knovel', 'Browse', 'Material Property Search', 'Corrosion Data', 'Equations', and 'Unit Converter'. Below this, there are three main sections: 'My Saved Items' (1), 'My Activity' (2), and 'My Profile' (3). A 'Tutorial Video' link is also present. On the left, there are 'Shortcuts' (My Alerts) and 'My Folders' (5) with an 'Add Folder' button. The 'My Folders' list includes 'Unfiled Items', 'cve', 'Design_Build_Commissioning', 'Materials', 'schwartz', 'Test protocols', 'Unicorp process project', and 'Wallace project'. The main content area shows 'UNFILED ITEMS' with a search bar (4) and a dropdown menu set to 'Within All Folders'. Below this, there are several items listed with checkboxes, titles, authors, and dates. A 'Feedback / Improve Knovel' button is on the right side.

- 1. My Saved Items:** Manage saved tables, queries, titles
- 2. My Activity:** Access recent searches and viewed content
- 3. My Profile:** Change communication preferences and password
- 4. Search:** Search for saved items
- 5. My Folders:** Organize your saved items into folders to save items by project, and to share with others

To learn more about how to use Knovel, visit app.knovel.com and click  in the top right corner

For more information about Knovel, visit:
elsevier.com/products/knovel



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